Mapping/demapping device — 101 — 10

UNI — 20

Mapping/demapping device — 102

Mapping/demapping device

30

NNI

Fig. 1

(Prior Art)

Mapping/demapping device

UNI — 20

Bridge device — 400
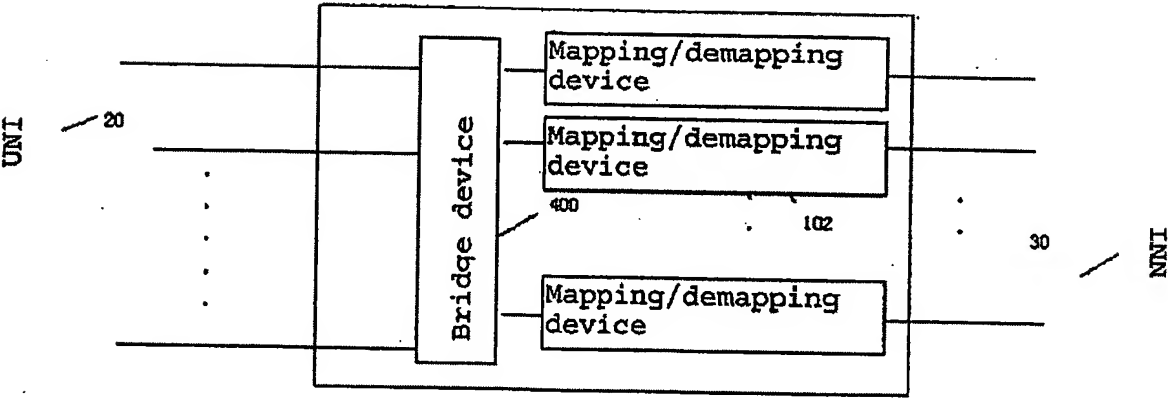
Mapping/demapping device

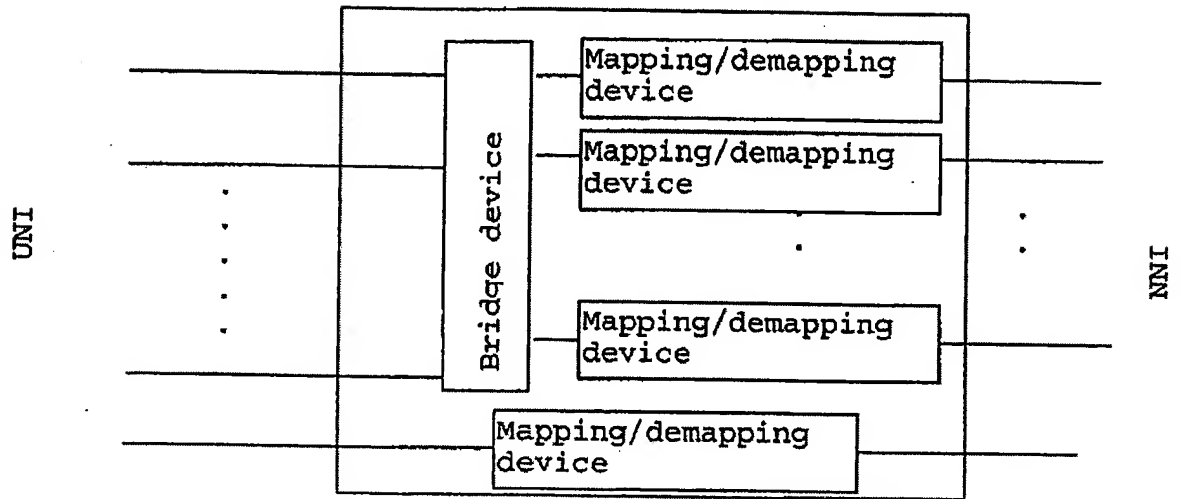102

Mapping/demapping device

30

NNI

Fig. 2A

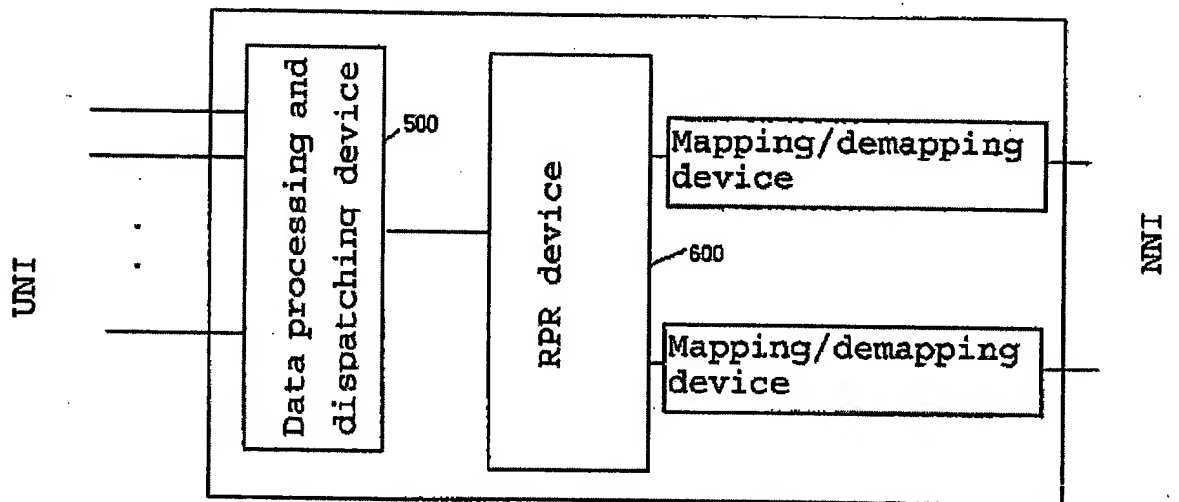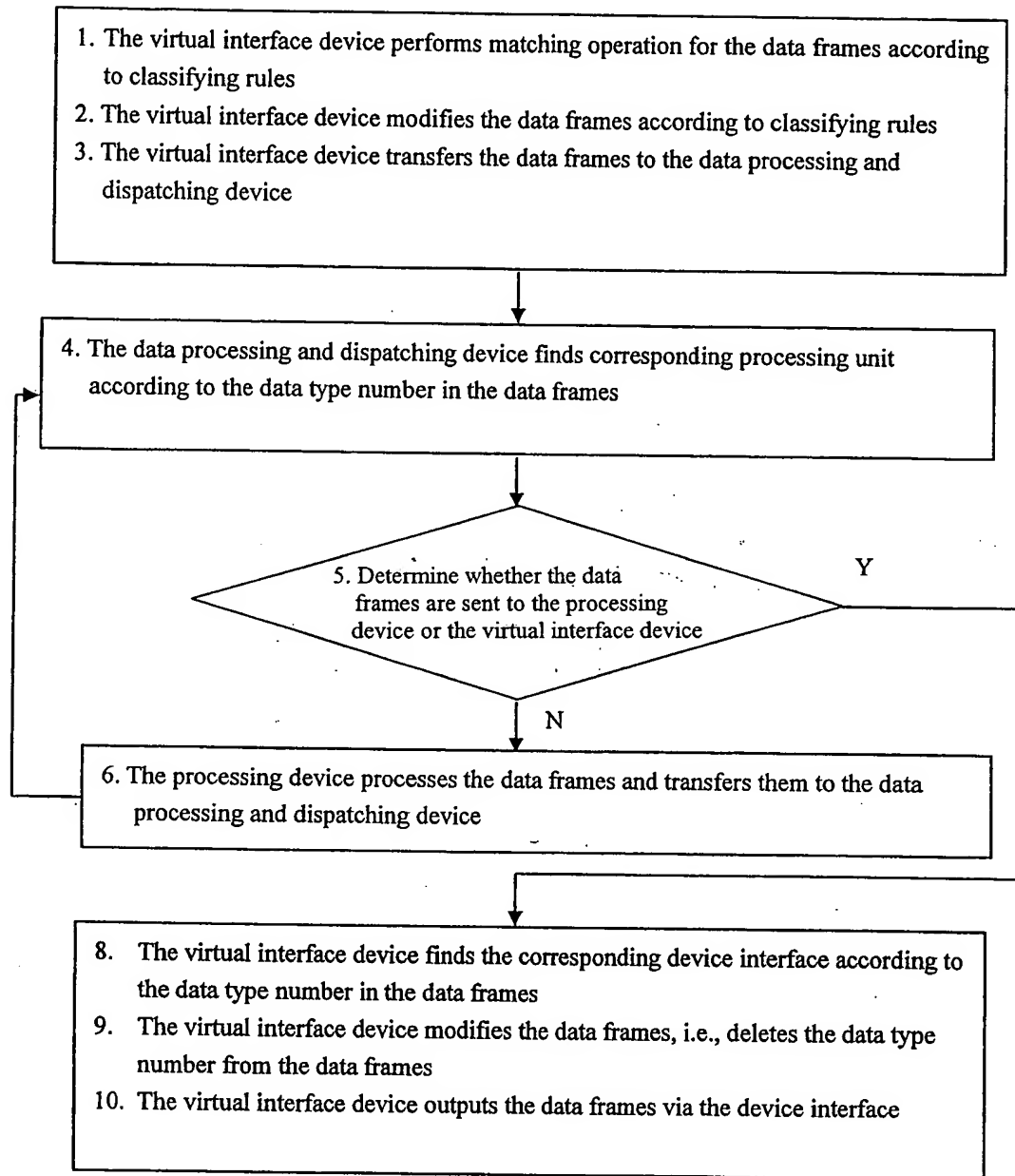(Prior Art)

Fig. 2B
(Prior Art)

Fig. 3
(Prior Art)

1. The virtual interface device performs matching operation for the data frames according to classifying rules
2. The virtual interface device modifies the data frames according to classifying rules
3. The virtual interface device transfers the data frames to the data processing and dispatching device

4. The data processing and dispatching device finds corresponding processing unit according to the data type number in the data frames

5. Determine whether the data frames are sent to the processing device or the virtual interface device

Y

N

6. The processing device processes the data frames and transfers them to the data processing and dispatching device

8. The virtual interface device finds the corresponding device interface according to the data type number in the data frames
9. The virtual interface device modifies the data frames, i.e., deletes the data type number from the data frames
10. The virtual interface device outputs the data frames via the device interface

Fig.4(F)